

2006 Standard Specifications and Project Special Provisions

For the 2006 standard specs, what 2 material sections were moved from the specs to the project special provisions?

A: signal heads and cabinet/controllers (because technology changes faster than the specs are revised)

What do we no longer require to be provided for signal heads?

A: incandescent sections

For the 2006 standard specs, what was removed from the signal plans?

A: plan quantities box

For the pay item for signal cable, how much is allowed up or down poles?

A: 25 feet

For the 2006 standard specs, what 2 things changed about how lead-in cable is paid for?

A: length determined by length markings on outer jacket and 2-pair and 4-pair are paid separately

How much vertical clearance is needed over railroad tracks?

A: 27 feet minimum

With the 2006 standard specs, what requirement was removed for junction boxes?

A: install box every 250 feet

What subsection of 1098 is Guy Assemblies in?

A: 1098-6 (not 1098-7 because of the errata - wood pole section was included in error)

What is the approved type of clamp for guy assemblies?

A: 3-bolt clamp (not strandwise)

Before sealing loop conductors, what 2 things should you do?

A: test impedance (min 100 megohms) and submit completed Inductive Detection Loop & Grounding Test Results form.

What test is required on fiber-optic splice centers?

A: bi-directional OTDR test

What class of concrete is required for signal pedestals?

A: Class B

What 2 types of junction boxes are used?

A: standard and oversize heavy-duty (deleted oversized)

What is the correct anchor bolt length for pedestals?

A: 18" (not 36")

How much are liquidated damages?

A: \$2500 (per occasion, per day, or part of a day)

True or False: Shop drawings are required for standard poles on the QPL.

A: True

What manufacturers are on the QPL for 12" red LED balls?

A: Dialight and TraStar

True or False: NC uses countdown pedestrian heads for new projects in NC.

A: True (except at RR preempt locations)

True or False: Strobes are an accepted traffic control device.

A: False (since 1990 FHWA has determined strobes are not effective)

True or False: A molex connector is required for LED signal heads.

A: False (removed requirement 7/06)

Where is rigid metallic conduit required?

A: Rigid metallic conduit is required on all RR R/W, both crossing and parallel to the tracks. *Are there other situations that require metallic conduit?*

True or false: All inductive loop work must be done in the presence of the Engineer.

A: True

Additional information:

[Major Changes and Revisions 2/10/2006](#) and [Errata Standard Provision 3/20/2007](#) are located on the web at:

<http://www.ncdot.org/doh/preconstruct/ps/specifications/english/2006.html>

Standard drawings are located at: http://www.ncdot.org/doh/preconstruct/ps/std_draw/default.html

Current project special provisions and loop inductance form are located at:

<http://www.ncdot.org/doh/preconstruct/traffic/ITSS/>

Metal pole standard foundation selection form is located at:

<http://www.ncdot.org/doh/preconstruct/highway/geotech/formdet/mpsf.pdf>